What is claimed is:

- 1 1. A method comprising:
- 2 releasing a predetermined holding force between a mask and platform; and
- 3 providing a temperature differential between the mask and the platform to
- 4 facilitate separation of the mask and the platform.
- 1 2. The method of claim 1, wherein the predetermined holding force comprises an
- 2 electrostatic force.
- 1 3. The method of claim 2, wherein the electrostatic force comprises a voltage
- 2 differential.
- 1 4. The method of claim 1, wherein the mask and the platform comprises a mask
- 2 and a mask platform compatible with extreme ultraviolet (EUV) radiation lithography.
- 1 5. The method of claim 4, wherein the EUV radiation lithography comprises a
- 2 lithography method having wavelengths of radiation in a range of about 11-14
- 3 nanometers.
- 1 6. The method of claim 4, wherein the mask comprises a mask having a coating to
- 2 facilitate substantial and stable holding forces.

- 1 7. The method of claim 6, wherein the coating comprises an electrically conductive
- 2 coating.
- 1 8. The method of claim 7, wherein the electrically conductive coating comprises
- 2 chromium (Cr).
- 1 9. The method of claim 1, wherein providing the temperature differential comprises
- 2 providing a low temperature gas at an interface between the mask and the platform.
- 1 10. The method of claim 1, wherein providing the temperature differential comprises
- 2 providing a current to a Peltier device included in the mask platform.
- 1 11. The method of claim 1, wherein providing the temperature differential comprises
- 2 providing a material through one or more channels within the mask platform.
- 1 12. The method of claim 11, wherein the one or more channels comprises at least
- 2 one of one or more channels fully enclosed within the mask platform.
- 1 13. The method of claim 1, wherein providing the temperature differential comprises
- 2 providing a material through one or more pathways, the one or more pathways passing
- 3 through the mask platform and extending into an interface between the mask and the
- 4 mask platform.

- 1 14. The method of claim 1, wherein the mask comprises a reflective mask.
- 1 15. The method of claim 14, wherein the mask further comprises a mask having a
- 2 silicon substrate upon which are multilayers of silicon and molybdenum.
- 1 16. An apparatus comprising:
- 2 a mask platform;
- a mask coupled to the mask platform, the coupled mask and the mask platform
- 4 forming an interface between the mask and the mask platform; and
- 5 a temperature differential device, the temperature differential device disposed to
- 6 provide a temperature differential at the interface to facilitate separation between the
- 7 mask and the mask platform.
- 1 17. The apparatus of claim 16, wherein the mask platform comprises an electrostatic
- 2 mask platform.
- 1 18. The apparatus of claim 16, wherein the mask platform comprises a mask
- 2 platform compatible with extreme ultraviolet (EUV) radiation lithography.
- 1 19. The apparatus of claim 18, wherein the mask comprises a mask compatible with
- 2 extreme ultraviolet (EUV) radiation lithography.

- 1 20. The apparatus of claim 19, wherein the mask comprises a mask having a coating
- 2 to facilitate absorption of the EUV radiation.
- 1 21. The apparatus of claim 20, wherein the coating includes at least one of titanium
- 2 nitride and tantalum nitride.
- 1 22. The apparatus of claim 19, wherein the mask comprises a mask having a coating
- 2 to coating to facilitate substantial and stable holding forces.
- 1 23. The apparatus of claim 22, wherein the coating comprises an electrically
- 2 conductive coating.
- 1 24. The apparatus of claim 23, wherein the electrically conductive coating comprises
- 2 chromium (Cr).
- 1 25. The apparatus of claim 16, wherein the temperature differential device comprises
- 2 a nozzle.
- 1 26. The apparatus of claim 16, wherein the temperature differential device comprises
- 2 a Peltier device disposed on the mask platform.
- 1 27. The apparatus of claim 16, wherein the temperature differential device comprises
- 2 one or more channels disposed within the mask platform.

- 1 28. The apparatus of claim 27, wherein the one or more channels comprises one or
- 2 more channels fully enclosed within the mask platform.
- 1 29. The apparatus of claim 27, wherein the one or more channels comprises one or
- 2 more channels coupled to a circulation device.
- 1 30. The apparatus of claim 16, wherein the temperature differential device comprises
- 2 one or more pathways, the one or more pathways passing through the mask platform
- 3 and extending into the interface.
- 1 31. The apparatus of claim 16, wherein the mask comprises a reflective mask.
- 1 32. The apparatus of claim 16, wherein the mask comprises a silicon substrate upon
- 2 which are multilayers of silicon and molybdenum.